

REMARKS

Receipt of the Office Action of November 19, 2004 is gratefully acknowledged.

The drawings are objected to because the "adapter circuit" of claims 10 - 17 and the "ports" of claim 18 are not shown. Claims 10 - 18 were copied from U.S. Patent No. 6,684,340 and these claims are in fact support by the present specification. Nevertheless, and in a bona fide effort to advance prosecution, claims 13 - 18 have been canceled and claims 10 -12 retained of the copied claims.

The specification has been amended extensively to insure conformity between the drawings and the descriptive text. These amendments obviate the need to correct the drawings. One error has been noted in Fig. 3, The reference numeral 69 refers to a valve and not a value. A replacement sheet of drawings showing the proper identity of element 69 is being submitted herewith.

The title of the application has been changed to make it more descriptive of the invention.

The objection to claim 11 is noted and respectfully traversed. Claim 10 defines the adapter circuit a two-wire interface as having two ports. Claim 11 defines "a second two-wire interface" which also has two ports. Accordingly, the two ports of claim 11 are not the same as the two ports of claim 10.

The rejection of claims 1 - 9 under the judicially created doctrine of obvious-type double patent is noted. Applicant is submitting herewith a terminal disclaimer to thereby overcome these rejections.

The rejection of claims 10 - 18 under 35 USC 112, first paragraph is noted.

Claims 13 - 18 have been canceled so that a part of this rejection has been rendered moot. However, with respect to claims 10 - 12, it is repeated here that the specification and drawings do support the structure defined in claims 10 - 12.. The fact that the phrase "adapter circuit" does not appear in those terms does not mean that an adapter circuit which meets the limitations of claims 10 - 12 is not disclosed in the application. The two port, two-wire interface of claim 10 with a measuring device are disclosed. The further two-wire interface (claim 11) is also disclosed. Nothing more is required to satisfy 35 USC 112,

The rejection of claim 1 as anticipated under 35 USC 102(b) over Venditti is noted and also respectfully traversed.

It is respectfully submitted that Venditti does not disclose powering any device via two pair of lines. All Venditti discloses is powering of a calibrator 18, which is temporarily connected to the measurement instrument 20 *instead* of the probe 44 via one pair of lines 52,54. The calibrator 18 cannot be equated with a measuring device, as the examiner suggests. Moreover, Venditti does not disclose or suggest the use of one of the two supply currents, each flowing in one of two pairs of lines, to represent any measured value.

To better define the scope of protection of the present invention, new claims 19 - 39 have been added. These claims are supported by the specification as filed.

U.S. Pat. Appl. 10/694,349

In view of the foregoing, reconsideration and re-examination are respectfully requested and claims 1 - 12 and 19 - 39 found allowable.

Respectfully submitted,

BACON & THOMAS, PLLC

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A handwritten signature in black ink, appearing to read 'Felix J. D'Ambrosio', written in a cursive style.

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